

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the subject application.

Listing of Claims:

1. (Currently amended) ~~A computer implemented A system comprising a computer program product residing on a computer readable medium having a plurality of instructions stored thereon which, when executed by a processor, cause the processor to perform operations that create a framework for a composite application, wherein the computer implemented framework comprising comprises:~~

an object access layer operable to exchange data with a plurality of enterprise base systems and to present the data to a composite application through a uniform interface;

a service layer operable to provide services to the composite application; and

a user interface layer operable to provide user interface patterns that facilitate information exchange between the composite application and a user[.];

a metadata repository operable to provide metadata for at least one of: business objects, business processes, user interfaces, business services, and code templates.

2. (Currently amended) The ~~computer implemented framework system~~ of claim 1, wherein [a] the composite application comprises business objects, business services, and business processes, wherein a business service comprises an action performed on a business object, and a business process comprises a combination of business services.

3. (Currently amended) The ~~computer implemented framework system~~ of claim 1, further comprising a database for composite application data, wherein the object access layer is further operable to provide local persistency in the database.

4. (Currently amended) The ~~computer implemented framework system~~ of claim 3, wherein the object access layer is further operable to provide data synchronization and replication of enterprise base system data in the database.

5. (Currently amended) The ~~computer implemented framework system~~ of claim 1, wherein the service layer comprises:

a collaboration services module operable to provide a collaboration service to the composite application; and

a workflow services module operable to provide a workflow to the composite application.

6. (Currently amended) The ~~computer implemented framework system~~ of claim 5, wherein the collaboration services module is operable to link a semantic object to a business object of the composite application.

7. (Currently amended) The ~~computer implemented framework system~~ of claim 5, wherein [a] the workflow comprises templates, workflow patterns, ~~and~~ actions, a template describing a workflow procedure, workflow patterns describing portions of the template, and actions executing functions to carry out the workflow patterns.

8. (Currently amended) The ~~computer implemented framework~~ system of claim 1, wherein the service layer further comprises a container for composite application services, the container operable to provide interfaces for non-framework-generated code.

9. (Currently amended) The ~~computer implemented framework~~ system of claim 1, wherein the user interface layer further comprises a user interface framework that separates user interface elements from the composite application so that the user interface layer is decoupled from the logic.

10. (Currently amended) The ~~computer implemented framework~~ system of claim 1, further comprising:

a business object modeler operable to provide a user interface for constructing a business object; and

a business object generator operable to generate an executable version of a modeled business object.

11. (Currently amended) The ~~computer implemented framework~~ system of claim 10, wherein the business object modeler comprises an object modeler and a relation modeler.

12. (Currently amended) ~~computer implemented framework~~ system of claim 10, wherein the business object generator comprises a generator framework and a persistency generator.

13. (Currently amended) The ~~computer-implemented framework system~~ of claim 10, wherein the business object generator is operable to code a business object template with metadata and relation data for a business object to generate an executable version of a modeled business object.

14. (Currently amended) The ~~computer-implemented framework system~~ of claim 13, wherein the business object generator is further operable to generate tables and proxies for a business object.

15. (Currently Amended) A ~~computer-implemented~~ method for implementing a composite application in a framework, the ~~computer-implemented~~ method comprising:

generating executable code for a composite application;
exchanging data with a plurality of enterprise base systems;
presenting enterprise base system data to the composite application through a uniform interface; and

~~facilitating a user's interaction with the composite application through user interface patterns.~~

generating user interfaces for facilitating interaction between the composite application and a user by using user interface patterns.

16. (Currently amended) The ~~computer-implemented~~ method of claim 15, wherein generating executable code for a composite application comprises coding a template with business object metadata and relation data.

17. (Currently amended) The ~~computer implemented~~ method of claim 16, wherein generating executable code for a composite application further comprises generating tables and proxies for a business object.

18. (Currently amended) The ~~computer implemented~~ method of claim 15, wherein a composite application comprises business objects, business services, and business processes, wherein a business service comprises an action performed on a business object, and a business process comprises a combination of business services.

19. (Currently amended) The ~~computer-implemented~~ method of claim 15, further comprising providing local persistency in a database for composite application data.

20. (Currently amended) The ~~computer implemented~~ method of claim 19, further comprising providing data synchronization and replication of enterprise base system data in the database.

21. (Currently amended) The ~~computer implemented~~ method of claim 15, further comprising:

providing a collaboration service to the composite application; and
providing a workflow to the composite application.

22. (Currently amended) The ~~computer-implemented~~ method of claim 15, further comprising providing a container for composite application services, the container operable to provide interfaces for non-framework-generated code portions.

23. (Currently amended) The ~~computer-implemented~~ method of claim 15, further comprising providing user interfaces to model the composite application, the user interfaces allowing specification of attributes and relations for a business object of the composite application.

24. (Currently amended) The ~~computer-implemented~~ method of claim 23, further comprising generating metadata for the business object and relations based on specifications.

25. (Currently amended) A computer program product, ~~tangibly embodied in an information carrier, for providing a framework for a composite application, the computer program product being operable to cause data processing apparatus to: residing on a computer readable medium having a plurality of instructions stored thereon which, when executed by a processor, cause the processor to perform operations that provide a framework for a composite application operable to:~~

generate executable code ~~for a~~ for the composite application;
exchange data with a plurality of enterprise base systems;
present enterprise base system data to the composite application through a uniform interface; and

generate user interfaces for facilitating interaction between the composite application and a user by using user interface patterns.

26. (Previously presented) The computer program product of claim 25, wherein generating executable code for a composite application comprises coding a template with business object metadata and relation data.

27. (Currently amended) The computer program product of claim 26, wherein generating [[a]] executable code for a composite application further comprises generating tables and proxies for a business object.

28. (Previously presented) The computer program product of claim 25, being further operable to cause data processing apparatus to provide local persistency in a database for composite application data.

29. (Currently amended) The computer program product of claim 28, being further operable to cause data processing apparatus to provide data synchronization and replication of enterprise base system data in the database.

30. (Currently amended) The computer program product of claim 25, being further operable to cause data processing apparatus to :

provide a collaboration service to the composite application; and
provide a workflow to the composite application.

31. (Currently amended) The computer program product of claim 25, being further operable to cause data processing apparatus to provide a container for composite application services, the container operable to provide interfaces for non-framework-generated code portions.

32. (Currently amended) The computer program product of claim 25, being further operable to cause data processing apparatus to provide user interfaces to model ~~the business object- a business object~~, the user interfaces enabling specification of attributes and relations for a business object of the composite application.

33. (Currently amended) The computer program product of claim 32, being further operable to cause data processing apparatus to generate metadata for the business object and relations based on specifications.

34. (Currently amended) ~~A computer implemented A system comprising a computer program product residing on a computer readable medium having a plurality of instructions stored thereon which, when executed by a processor, cause the processor to perform operations that provide a framework for developing and implementing a composite application, wherein the computer implemented framework comprising comprises:~~

a database for composite application data;

an object access layer operable to:

exchange data with a plurality of enterprise base systems, present the data to a composite application through a uniform interface, provide local persistency in the database, and provide data synchronization and replication of enterprise base system data in the database;

a service layer comprising:

a collaboration services module operable to provide a collaboration service to the composite application, and

a guided procedure services module operable to provide a guided procedure to the composite application;

a user interface layer operable to provide user interface patterns for displaying information relating to the composite application, the user interface layer comprising a user interface framework that separates user interface elements from the composite application so that the user interface layer is decoupled from the logic;

a metadata repository operable to provide metadata for at least one of: business objects, business processes, user interfaces, business services, and code templates;

a business object modeler operable to provide a user interface for constructing a business object of the composite application; and

a business object generator operable to generate an executable version of a modeled business object.

35. (Currently amended) The ~~computer implemented framework system~~ of claim 34, wherein the business object modeler comprises an object modeler and a relation modeler.

36. (Currently amended) The ~~computer implemented framework system~~ of claim 34, wherein the business object generator comprises a generator framework and a persistency generator.

37. (Currently amended) The ~~computer implemented framework system~~ of claim 36, wherein the business object generator is operable to code a business object template with metadata and relation data for a business object to generate an executable version of the modeled business object and to generate tables and proxies for a business object.

38. (Currently amended) The ~~computer implemented framework system~~ of claim 34, wherein a composite application comprises business objects, business services, and business processes, wherein a business service comprises an action performed on a business object, and a business process comprises a combination of business services.

39. (Currently amended) The ~~computer implemented framework system~~ of claim 34, wherein the collaboration services module is operable to link a semantic object to a business object of the composite application.

40. (Currently amended) The ~~computer implemented framework system~~ of claim 34, wherein a guided procedure comprises templates, workflow patterns, and actions, a template describing a guided procedure, workflow patterns describing portions of the template, and actions executing functions to carry out the workflow patterns.

41. (Currently amended) The ~~computer-implemented framework~~ system of claim 34, wherein the service layer further comprises a container for composite application services, the container operable to provide interfaces for non-framework-generated code.